

6. (Amended) Implant according to Claim 1, characterized in that different areas are provided with different pore characteristics.

7. (Amended) Implant according to Claim 1, characterized in that the surface of the oxide layer comprises about 20% titanium, about 55% oxygen and about 20% carbon, and the layer otherwise consists of titanium dioxide.

8. (Amended) Implant according to Claim 1, characterized in that the oxide layer has a surface roughness of about 1 - 5 μm or less.

9. (Amended) Implant according to Claim 1, characterized in that the oxide layer has a thickness in the range of 1 - 20 μm , preferably 2 - 20 μm .

10. (Amended) Implant according to Claim 1, characterized in that the oxide layer is highly porous, with pore diameters in the range of 0.01-10 μm .

14. (Amended) Implant according to Claim 11, characterized in that the oxide layer is highly porous.

15. (Amended) Implant according to Claim 11, characterized in that it is a screw implant which bears the said oxide layers and surfaces on its threads.

18. (Amended) Method according to Patent Claim 16, characterized in that the oxide layer is immersed in a container holding the substance.

21. (Amended) Use according to Patent Claim 19, characterized in that it is used in holes involving soft and/or reduced bone.

24. (Amended) Implant according to Patent Claim 22, characterized in that the oxide layer is highly porous, with 1×10^7 - 1×10^{10} pores/cm².

25. (Amended) Implant according to Patent Claim 22, characterized in that each surface essentially has pores with diameter sizes in the range of 0.1 - 10 μm , and/or in that the total pore volume is within a range of 5×10^{-2} and 10^{-5} cm^3 .

28. (Amended) Method according to Patent Claim 26, characterized in that the position of the implant in the electrolyte is changed, together with the composition of the electrolyte and/or the voltage, in order to create different oxide thicknesses and/or areas with different porosity or pore characteristics.

REMARKS

The claims have been amended to eliminate multiple dependency and to improve their format. None of these amendments is believed to involve any new matter. Accordingly, it is respectfully requested that the foregoing amendments be entered, that the application as so amended receive an examination on the merits, and that the claims as now presented receive an early allowance.

Respectfully submitted,



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